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Report includes statistics on number of participants, number of graduates, number going on to graduate school and number making presentations at national/regional conferences.

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QUARTERLY REPORT - FALL 1995

NURTURING ECSU RESEARCH TALENT PROJECT

SUBMITTED TO

THE OFFICE OF NAVAL RESEARCH

BY

ELIZABETH CITY STATE UNIVERSITY

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10/25/95

Don Wagner
Mathematical, Computer and Information Science Division
Office of Naval Research
800 Quincy Street
Arlington, VA 22217-5660

Dear Dr. Wagner:

Enclosed you will find the quarterly report of the Nurturing ECSU Research Talent Program housed at Elizabeth City State University. As you read through the report I am sure you will find that ECSU is making a concentrated effort to recruit and mentor these students while engaging them in scientific research. We now have twenty-seven students in the program and two precollege students. The precollege students were of course involved on a full time basis during the summer. They however continue to attend our weekly meetings and participate in the team research efforts.

The statistics you requested were e-mailed to you about two weeks ago. These statistics are included on the last page of this letter. The bound report which is included, documents the activities of the summer bridge program while the following sections are highlights of the current fall activities. More details of the fall activities will be provided in the next quarterly report.

Full Time Tutor Hired

A fulltime tutor (Ms. Kim Gordon) has been hired to work with the student researchers. Kim is a graduate student finishing her thesis for a masters in mathematics. Kim's main assignment involves organizing study groups and coordinating the graduate school and internship application process.

Fall Research Training Seminars

Research meetings are held twice each week from 5pm to 7pm on Tuesday and Thursday. The first half hour is used for announcements, preparation of abstracts, progress checks and dealing with issues which affect the entire group. The remaining time is spent in research groups with the faculty mentors.

Students receiving scholarships are required to spend 20 hours each week in the ONR computer laboratory. During the 20 hours students complete assignments from a task sheet. Task sheets vary depending on the student's time in the program however all task sheets include graduate school activities and internship activities.

Graduate School Activities

Graduate school activities, this fall, include GRE preparation sessions (see attached schedule) and payment of fees for each senior to take the December offering of the GRE. Juniors and Seniors are making preparations to attend the Graduate School Focus and King Week Celebration at Georgia Tech in January. Seniors are also applying for a graduate school visitation sponsored by Illinois State University. All juniors and seniors are having their applications entered into the MASTAP data base for fellowships and two visiting lecturers (NC A&T and Hampton University) have discussed graduate school opportunities. Finally all students, as a task sheet requirement, must contact graduate schools requesting information on programs and fellowships. Juniors and Seniors are required to contact 5 graduate schools as a task sheet requirement while other students are required to contact two.

Internship Activities

Internship activities, this fall, have included an internship roundtable during which students who have completed internships discussed their experiences with other students. Applications for a variety of internships were distributed during the roundtable.
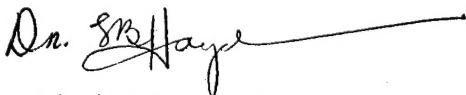
Students are encouraged to periodically check the internship bulletin board for postings and to search the internet for opportunities. The announcement period of the research training meetings includes recently received internship circulars. Fall task sheets also require students to complete three internship applications.

We have one student, Makeba Fussell, now assigned to Lawrence Berkley Laboratory's Advance Light Scource Program. Her scholarship will be activated during the spring semester when she returns from LBL. A complete report on all internships (summer'95 and fall'95) will be included in the next quarterly report.

Summer Brigde Program

The attatched bound report documents the summer bridge program activities. We are now in the last year of the AASERT program and will submit a proposal to continue the supplemental activities funded by AASERT. We hope that after reviewing the report, you will lend your support to the continuation proposal.

Sincerely,

Dr. Linda Hayden, PI
GRANT # N00014-94-1-1089 and # N00014-94-1-0948

Statistics Requested

Q. Number and kind (e.g., grad, high school) of students supported
A. The current program has the following enrollment:

    27 ECSU students
     2 Precollege students
     5 Graduate students

Q. Number of students retained if less than started out with.
A. All students were retained.

Q. Number of students graduated this year
A. Five students supported by the ONR program graduated May'95

    S. Saunders
    T. McCray
    K. Trotman
    Tonia Best
    Ervin Howard

Q. Number of graduated students who started or are about to start grad school.

A. Three of these students enrolled in graduate school

    S. Saunders
    T. McCray
    K. Trotman

Q. Number of students who published papers

A. Seven student researchers made presentations of their research findings at the following conferences and are published in the conference proceedings.

NAFEO High Tech Expo'95 (Denisa Edwards and Sharon Saunders)

SOAR- Seizing Opportunities for Advancing Research Scholars
(Dovella Moore, Reginal Turner, Matresha Walker, Cutilda Monk)

Schedule for the Fall 1995 GRE Sessions

Date	Time	Discussion
Oct 3	5-8	Diagnostic Test
Oct 15	2-5	What You need to know about the GRE &Testing Tactics
Oct 21	9-1	Sentence Completion & Analogy
Oct 26	5-8	Reading Comprehension & Antonym Questions
Nov 4	9-1	Reviewing Vocabulary & Quantitative Comparsion
Nov 11	9-1	Discrete Quantitative Comparsion & Data Interpretation
Nov 18	9-1	Mathematics Review & Analytical Ability
Nov 21	5-8	Mock Test
Dec 2	9-12	Review
****Dec 9 *****		GRE Test Day

Comments:

*Tuesday, Nov 21, we would like to give the mock test because:
1. It is Thanksgiving week.
2. We would like for everyone to be present.

*Each session will consist of a discussion of hand outs from the various
sources on particular subjects, a timed test at the end of the session and a question and answer period.

To: Timothy McCray
               Sharon Saunders

From: Dr. Linda Hayden

Re: GRE Prep Coordinator Positions

Date: 10/28/95

I would like to have you to start immediately to organize the GRE Preparation Sessions for our
ONR Student Researchers. The Sessions will be conducted on Saturday mornings(or afternoons)
in 115 LH. Contracts are being processed for both of you paying :

$$(\$10/hr)(6hr/wk)(24 \text{ wks}) = \$1440.00 \quad \text{beginning Sept. 1995.}$$

**The following are priority items to be considered when designing the GRE
Preparation Sessions.**

1. Install the GRE software on the Macintosh computers.

2. Design worksheets for students with instructions on which Lesson numbers to complete.

3. Lessons should be selected to include preparation on Verbal, Quantitative and Analytical topics
   with heavy emphasis on Verbal and Quantitative.

4. Lessons can also be taken from the print material in my office. The testing office on our
   campus may have additional literature that can be used as handouts.

5. Also prepare test taking skills handouts. Discuss a few of these at the beginning of each
   session.

6. Students should take timed computer test at the conclusion of each session. Keep a record of
   their progress #right, and completion time. Allow students to repeat test to improve their
   score.

7. Check out bookstores or publishers catalogs to find new reference material to be used with
   sessions.

8. Make heavy use of GRE info from ETS.

9. Make sure everyone completes the GRE application. Taylor will type the requisition to pay the
   fees. Some students can get fee waivers. They need to check with the financial aid office for
   details.*

10. Hold a MOCK GRE in November.*

11. Use the Polaroid to take a photo of everyone for admission to the GRE. Make sure that other
    admission requirements are satisfied.

* All student researchers will take the MOCK GRE and attend at least 6 Prep sessions. Selected
  students will take the GRE in December.

Research Team Descriptions
ONR-Nurturing ECSU Research Talent
Fall 1995 - Spring 1996

Research Focus	Mentor	Team Members (27)
Fractals/Choas	Dr. D. Sengupta	Tammara Ward, So/Math Cory Ellis, So/Math Clutilda Monk, Sr/Math
Virtual Reality/Graphics	Dr. Zhang	Dovella Moore, Sr/CS Felicia Bower, Jr/CS Melvin Anderson, So/CS Reginal Turner, Sr/CS LaVerne Williams So/CS Stacia McFadden Jr/CS Tanisha Cowell So/math Eugenia Kee Sr/CS
Numerical Computing	Mr. Ralph Okojie	Lavonna Felton,So/Math Samantha Brown So/Math
Multimedia Authoring	Dr. Hayden	Courtney Fields Fre/CS Lakisha Mondon Fre/Math Connie Sawyer, Pre/CS Derrek Burrus,Fr/CS Tanya Granger Fr/CS Vera Powell fr/CS Chonda Gayle, Sr/CS Je'aime Powell Pre/CS
Unix System Adm.	Dr. Hayden	Kuchumbi Hayden, Fr/CS Matresha Walker,Sr/CS Chonda Gayle Sr/CS Rosa Riddick SR/CS Curtis Felton,So/CS Eva Marie Dail, Sr/CS
Mott-Rutterford Scattering	Dr. Choudhury	Clarence Jones Sr/Phy